

ABSTRACT OF THE DISCLOSURE

A method of controlling a loop-back process between a local device and a remote
5 device in an Ethernet passive optical network is disclosed. The method includes the steps
of: (a) adding a predetermined field into a loop-back control OAM PDU in the loop-back
process, the predetermined field having distinguishing messages for initiation of a loop-
back process and messages for termination of a loop-back process; and (b) the local device
and the remote device performing a loop-back process using the loop-back control OAM
10 PDU.